



## ALGEBRANIMALS

Mr. Merrick · Division 2 Mathematics · September 13, 2025

$$\text{sloth} + \text{sloth} + \text{sloth} = 15$$

$$\text{owl} + \text{sloth} + \text{hippo} = 21$$

$$\text{sloth} + \text{hippo} = 14$$

$$\text{hippo} = \boxed{9}$$

$$\text{sloth} = \boxed{5}$$

$$\text{owl} = \boxed{7}$$

$$\text{cat} + \text{chipmunk} = 14$$

$$\text{cat} + \text{chipmunk} + \text{chipmunk} = 25$$

$$\text{koala} - \text{cat} = 5$$

$$\text{chipmunk} = \boxed{11}$$

$$\text{cat} = \boxed{3}$$

$$\text{koala} = \boxed{8}$$

$$\text{panda} + \text{panda} + \text{panda} + \text{raccoon} = 15$$

$$\text{hedgehog} + \text{panda} = 10$$

$$\text{panda} + \text{raccoon} + \text{panda} + \text{raccoon} = 14$$

$$\text{raccoon} = \boxed{3}$$

$$\text{panda} = \boxed{4}$$

$$\text{hedgehog} = \boxed{6}$$

$$\text{Penguin} + \text{Penguin} + \text{Penguin} + \text{Penguin} = 16$$

$$\text{Bear} + \text{Penguin} = 12$$

$$\text{Squirrel} + \text{Penguin} = 14$$

$$\text{Penguin} = \boxed{4}$$

$$\text{Bear} = \boxed{8}$$

$$\text{Squirrel} = \boxed{10}$$

$$\text{Mouse} + \text{Pig} = 11$$

$$\text{Mouse} + \text{Mouse} + \text{Wolf} = 19$$

$$\text{Pig} + \text{Wolf} = 12$$

$$\text{Mouse} = \boxed{6}$$

$$\text{Pig} = \boxed{5}$$

$$\text{Wolf} = \boxed{7}$$

$$\text{Chicken} + \text{Chicken} = 12$$

$$\text{Dog} + \text{Chicken} = 16$$

$$\text{Chicken} + \text{Raccoon} = 13$$

$$\text{Chicken} = \boxed{6}$$

$$\text{Dog} = \boxed{10}$$

$$\text{Raccoon} = \boxed{7}$$

$$\text{dog} + \text{hedgehog} + \text{hippo} = 21$$

$$\text{hedgehog} + \text{hippo} = 13$$

$$\text{dog} + \text{hedgehog} = 9$$

$$\text{dog} = \boxed{8}$$

$$\text{hedgehog} = \boxed{1}$$

$$\text{hippo} = \boxed{12}$$

$$\text{bat} + \text{bat} + \text{bat} = 12 \quad \text{bat} = \boxed{4}$$

$$\text{bee} + \text{bat} = 11$$

$$\text{ladybug} + \text{bee} = 9$$

$$\text{bee} = \boxed{7}$$

$$\text{ladybug} = \boxed{2}$$

$$\text{elephant} + \text{sloth} - \text{panda} = 4$$

$$\text{sloth} + \text{panda} = 12$$

$$\text{elephant} + \text{sloth} = 9$$

$$\text{elephant} = \boxed{2}$$

$$\text{sloth} = \boxed{7}$$

$$\text{panda} = \boxed{5}$$

$$\text{Penguin} + \text{Rabbit} + \text{Hedgehog} = 18$$

$$\text{Hedgehog} + \text{Penguin} = 11$$

$$\text{Rabbit} + \text{Hedgehog} = 9$$

$$\text{Penguin} = \boxed{9}$$

$$\text{Rabbit} = \boxed{7}$$

$$\text{Hedgehog} = \boxed{2}$$

$$\text{Squirrel} + \text{Squirrel} = 8$$

$$\text{Cat} + \text{Dog} = 16$$

$$\text{Cat} + \text{Squirrel} + \text{Dog} + \text{Squirrel} = 24$$

$$\text{Cat} = \boxed{12}$$

$$\text{Squirrel} = \boxed{4}$$

$$\text{Dog} = \boxed{4}$$

$$\text{Bear} + \text{Pig} = 13$$

$$\text{Penguin} + \text{Penguin} + \text{Penguin} + \text{Penguin} = 12$$

$$\text{Bear} + \text{Penguin} = 10$$

$$\text{Bear} = \boxed{7}$$

$$\text{Pig} = \boxed{6}$$

$$\text{Penguin} = \boxed{3}$$

$$\text{Koala} + \text{Koala} = 16$$

$$\text{Koala} + \text{Owl} = 14$$

$$\text{Squirrel} + \text{Owl} = 11$$

$$\text{Koala} = \boxed{8}$$

$$\text{Owl} = \boxed{6}$$

$$\text{Squirrel} = \boxed{5}$$

$$\text{Snowman} + \text{Wolf} = 11$$

$$\text{Snowman} - \text{Wolf} = 7$$

$$\text{Rabbit} + \text{Wolf} = 9$$

$$\text{Snowman} = \boxed{9}$$

$$\text{Wolf} = \boxed{2}$$

$$\text{Rabbit} = \boxed{7}$$

$$\text{Squirrel} + \text{Squirrel} = 8$$

$$\text{Wolf} + \text{Squirrel} = 13$$

$$\text{Wolf} + \text{Squirrel} = 11$$

$$\text{Squirrel} = \boxed{5}$$

$$\text{Wolf} = \boxed{8}$$

$$\text{Squirrel} = \boxed{3}$$

$$\text{Penguin} + \text{Squirrel} + \text{Hedgehog} = 12$$

$$\text{Penguin} - \text{Hedgehog} = 4$$

$$\text{Squirrel} + \text{Hedgehog} = 6$$

$$\text{Penguin} = \boxed{6}$$

$$\text{Squirrel} = \boxed{4}$$

$$\text{Hedgehog} = \boxed{2}$$

$$\text{Bear} + \text{Cat} = 14$$

$$\text{Bear} + \text{Owl} = 16$$

$$\text{Owl} + \text{Cat} = 12$$

$$\text{Bear} = \boxed{9}$$

$$\text{Cat} = \boxed{5}$$

$$\text{Owl} = \boxed{7}$$

$$\text{Goat} + \text{Pig} = 14$$

$$\text{Dog} + \text{Pig} = 9$$

$$\text{Goat} + \text{Dog} = 17$$

$$\text{Goat} = \boxed{11}$$

$$\text{Pig} = \boxed{3}$$

$$\text{Dog} = \boxed{6}$$

$$\begin{array}{ccc} \text{Penguin} & + & \text{Panda} = 10 \\ \text{Hippo} & - & \text{Panda} = 4 \\ \text{Hippo} & + & \text{Panda} = 16 \end{array}$$

$$\begin{array}{ccc} \text{Penguin} & = & \boxed{4} \\ \text{Penguin} & + & \text{Panda} = \boxed{6} \\ \text{Penguin} & + & \text{Hippo} = \boxed{10} \end{array}$$

$$\begin{array}{ccc} \text{Bear} & + & \text{Sloth} = 12 \\ \text{Elephant} & - & \text{Bear} = 5 \\ \text{Elephant} & - & \text{Sloth} = 7 \end{array}$$

$$\begin{array}{ccc} \text{Bear} & = & \boxed{7} \\ \text{Bear} & + & \text{Sloth} = \boxed{5} \\ \text{Bear} & + & \text{Elephant} = \boxed{12} \end{array}$$

$$\begin{array}{ccc} \text{Chicken} & + & \text{Raccoon} = 13 \\ \text{Monkey} & - & \text{Chicken} = 4 \\ \text{Monkey} & - & \text{Raccoon} = 9 \end{array}$$

$$\begin{array}{ccc} \text{Chicken} & = & \boxed{9} \\ \text{Chicken} & + & \text{Raccoon} = \boxed{4} \\ \text{Chicken} & + & \text{Monkey} = \boxed{13} \end{array}$$

$$\text{Pig} + \text{Wolf} = 14$$

$$\text{Pig} - \text{Squirrel} = 6$$

$$\text{Wolf} - \text{Squirrel} = 4$$

$$\text{Pig} = \boxed{8}$$

$$\text{Wolf} = \boxed{6}$$

$$\text{Squirrel} = \boxed{2}$$

$$\text{Bear} - \text{Owl} = 3$$

$$\text{Owl} + \text{Hedgehog} = 11$$

$$\text{Bear} - \text{Hedgehog} = 8$$

$$\text{Owl} = \boxed{8}$$

$$\text{Bear} = \boxed{11}$$

$$\text{Hedgehog} = \boxed{3}$$

$$\text{Koala} + \text{Rabbit} + \text{Panda} = 22$$

$$\text{Koala} - \text{Rabbit} = 3$$

$$\text{Panda} + \text{Rabbit} = 13$$

$$\text{Koala} = \boxed{9}$$

$$\text{Rabbit} = \boxed{6}$$

$$\text{Panda} = \boxed{7}$$